

Cow Dung: A Bio Coating

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Abstract

Surfaces are hypothetical to feel good to the touch and to look good for as long as possible, be care free, doesn't get spoiled by dirt, show good thixotropic behaviour, scratch and mar resistant, etc. A coating is a skin that is applied to the surface of any object for decoration, protection or for specific technical purposes. Paints are used for coloring and protecting many surfaces, including households, cars, road makings and underground storage vessels. Paints are used everywhere in our day today lives. However, have you ever wondered the amount of environmental problems caused by the hazardous volatile organic compounds released by these synthetic paints? The World Health Organization says that professional decorators are 40% more likely to contract lung cancer, so it is no great leap to wonder whether paint in the home is detrimental to those living there. These aspects promote us to think for a better, greener and sustainable solution. Bio-based paint is one of the greatest solution to this problem. Natural finishes are always like an icing on a piece of cake. Bio-based paints primarily make use of natural resources. They avoid toxic Volatile Organic Compounds (VOCs). It has now been proven from various studies that the greenhouse gasses emitted during the production of bio-based coatings are potentially lower in comparison with petrochemical-based paints. Bio paints are gaining importance because of their use in health nutrition, pharmaceutical, textile, and environmental applications. This research has presented the possibility of using Cow Dung as green filler to prepare a composite coating.

Biography

Madhuja Katkar is a B.tech student at institute of chemical technology, Mumbai. Her field of interest is Polymer and surface coating, Green Chemistry, Environmental Science.

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